

M 5.7, 41 km ENE of Villa Presidente Frei, uoa, Santiago, Chile, Chile

Origin Time: 2021-01-24 00:07:45 UTC (Sat 21:07:45 local)

Location: 33.3533° S 70.1484° W Depth: 109.5 km

Created: 1 week, 6 days after earthquake

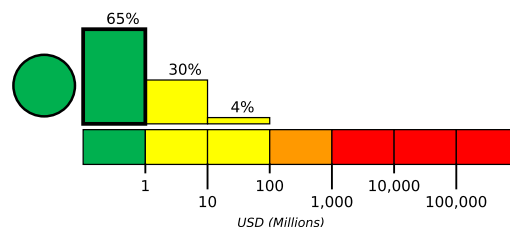
PAGER
Version 6

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

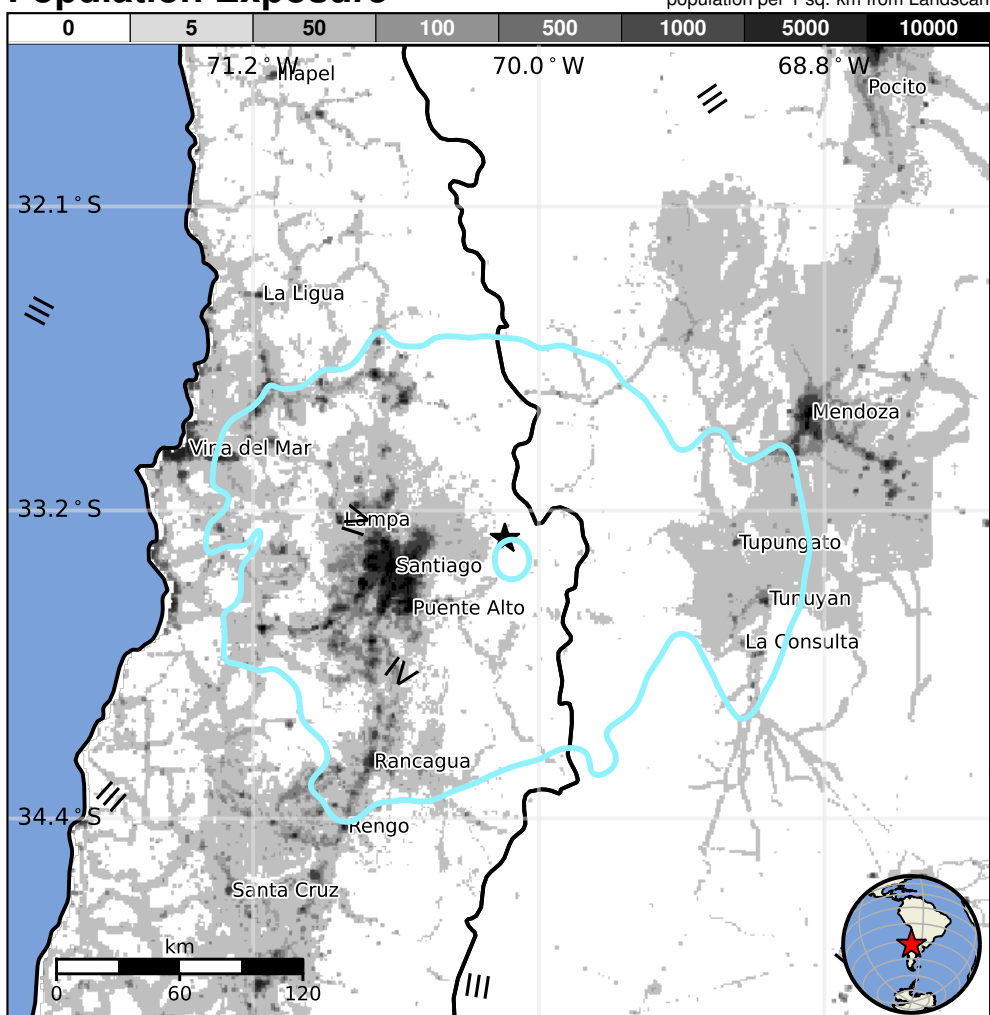


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	3,486k*	9,601k	1k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1985-01-26	147	5.9	VIII(38k)	6
1997-10-15	289	7.1	VIII(3k)	7
1985-03-03	151	7.9	VII(5,319k)	177

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Chicureo Abajo	18k
IV	Villa Presidente Frei, Nunoa, Santiago, Chile	15k
IV	La Pintana	201k
IV	Graneros	23k
IV	Providencia	<1k
IV	Puente Alto	510k
IV	Santiago	4,837k
IV	Rancagua	213k
IV	Mendoza	877k
III	Valparaiso	282k
III	San Juan	447k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000d2s4#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000d2s4